

Catalog	Unit Size
TBS5077-100	100 ml
TBS5077-500	500 ml

DESCRIPTION

Tribio Antigen Retrieval Citrate solution, pH 6.0, is commonly used for heat-induced antigen retrieval in formalin-fixed, paraffin-embedded (FFPE) tissue sections prior to antibody staining. In immunohistochemistry (IHC), fixatives such as formalin can mask cellular, membrane, and nuclear antigens through cross-linking, often leading to weak or absent staining. Treatment with citrate buffer or other antigen retrieval solutions helps reverse this masking effect and restores antigen accessibility, thereby improving antibody binding and staining performance in FFPE samples.

SYNONYM

Citrate Buffer Concentrate, pH 6.0 (10×)
 Antigen Retrieval Buffer (Citrate-Based, 10×) Sodium Citrate Buffer for HIER
 Heat-Induced Epitope Retrieval (HIER) Citrate Solution (10×)

APPLICATION

- Heat-induced epitope retrieval (HIER) for FFPE tissue sections
- Immunohistochemistry (IHC) staining
- Immunofluorescence (IF) assays
- DNA fluorescence in situ hybridization (FISH) pre-treatment
- Antigen unmasking to improve antibody binding and signal detection
- Pathology research and biomarker analysis

PROPERTIES

Concentration:	10x
pH:	6
Form:	Liquid
Sterility:	Sterile filtered
Storage:	Store at 2-8°C

DIRECTIONS FOR USE

1. Dilute the 10× Citrate Buffer to 1× working solution with deionized or distilled water before use.
2. Preheat the 1× solution to the desired temperature according to the retrieval method (e.g., microwave, pressure cooker, or water bath).
3. Immerse FFPE tissue sections completely in the preheated buffer.
4. Perform heat-induced antigen retrieval for the recommended time based on the specific protocol.
5. Allow slides to cool gradually to room temperature in the buffer.
6. Rinse slides with appropriate buffers (e.g., PBS) before proceeding with antibody staining or downstream applications.

RELATIVE PRODUCTS

TBS2005	Protein Assay Kit
TBS5001	Protein Lysis Buffer
TBS5003-0	1xPBS
TBS5011-10	10 x PBST
TBS5008	TBS
TBS5008T	TBST
TBS5037	Urea Solution (8M)
TBS5038	Ammonium Sulfate Solution
TBS5040	0.5M EDTA Solution
TBS5041	MOPS Buffer
TBS5048	2% BSA in PBS
TBS5049-2	2% BSA in TBST
TBS5049-5	5% BSA in TBST
TBS5057	0.1% BSA ELISA Assay Buffer
TBS5077	Antigen retrieval Citrate Solution-pH6.0
TBS8024	MCF10 Cell Complete Medium
TBS8027	EMEM with L-Glutamine
TBS8030	McCoy's 5A Medium
TBS8031	30% BSA Solution in DPBS
TBS8047	MCF-7 Cell Complete Medium
TBS8056	LB Medium
TBS8057	SOB Medium
TBS8058	SOC Medium
TBS8059	2x YT Medium
TBS8060	Terrific Broth (TB) Medium
TBS8061	DMEM-high Glucose Medium

This product is for research use only.